

CEREMONY MARKS REDSTONE RETIREMENT

Arsenal Traffic Facts May Surprise Motorists

The Redstone Arsenal Traffic Control Board met recently for the second time and some of the things that came out of the meeting were enough to make Arsenal motorists sit up in their bucket seats and take notice.

ITEM: though the Arsenal has had only three fatal accidents in the past two years, it is still higher than the national average in deaths-per-accident.

ITEM: since June of 1963 a total of 57 motorists have had their Arsenal driving privileges suspended for traffic violations; 15 since June of this year.

ITEM: Nearly one out of five accidents on the Arsenal is caused by failure to yield right of way.

ITEM: there are a half-dozen violations which can lead to immediate revocation of Arsenal driving privileges.

ITEM: if you wonder where the traffic comes from, there are now nearly 48,000 vehicles registered on the Arsenal.

The Traffic Board which came up with these findings was set up earlier this year to study Arsenal traffic problems and make

suggestions. It is headed by Col. William Luk, the Provost Marshal, who compiled some of the statistics above. Other members of the board are G. W. Breedlove, of the Provost Marshal Office, Robert H. Seavers, of the Missile Support Command Safety Office, R. H. Labbe, of the Marshall Space Flight Center Safety Office, and Paul Hodson, of OGMs.

Among the Board's findings were these: the national average is one traffic fatality per 250 motor vehicle accidents. For years Redstone Arsenal had a fatality-to-accident ratio that bettered the national average by far, but in the last two years the Arsenal average has dropped so that it once again approximates the national figure. Obviously, accidents will continue to happen and periodically one of them will result in a fatality. In order to re-

(See TRAFFIC on Page 3)

Gate 7 Opens Mon.

Gate 7 to Redstone Arsenal probably will be re-opened to traffic by the first of next week, relieving an overflow of vehicles which has been routed through Gate 9 for more than a month, according to James L. Abercrombie, Area Engineer.

The gate has been closed while the roadbed along a two-mile section of Martin Road inside the military reservation is replaced. Weather permitting, the project is expected to be finished in time for the gate to be opened again to

traffic by Monday, Nov. 9.

The road was left open to traffic at first as it was being resurfaced, but had to be closed when it was discovered its base was collapsing under heavy vehicles. Current improvements which are nearing completion include raising the roadbed above flood level near two creeks, and laying a new asphalt topping.

As heavy duty machinery was hauling in dirt to be used in raising the roadbed, the crust of the pavement broke under the weight. Core drillings revealed that three to four feet of muck, which now has been replaced by packed red clay, was all that was holding up the blacktop.

Martin Road passes through Range Area 3 and, in addition to the (See GATE on Page 2)

Gen. Levitan Works Here Two Weeks

Brig. Gen. Selig J. Levitan, a practicing New York Attorney in Civilian life, is at the U.S. Army Missile Command at Redstone Arsenal for two weeks of active military duty.

The veteran U.S. Army Reserve officer arrived Sunday and will be here until Nov. 13. His last visit to Redstone was in 1944.

Gen. Levitan currently is assigned to the Army Materiel Command in Washington, D.C. In case of mobilization, he would serve as Deputy Chief of the Directorate for Procurement and Production. He also is commander of two U.S. Army Corps Mobilization Designation Detachments.

On the last day of his visit, Gen. Levitan will deliver the graduating address at the Ordnance Guided Missile School. Thirty-seven officers and enlisted men, all from the United States, are in the graduating class.

Gen. Levitan has completed 34 years of Army service, and was promoted to his present rank in 1961. He lives in Scarsdale, N.Y., and has a private law practice in New York City.

HAWK EXPERTS ARE HOSTS FOR MEETING

The International Assistance Division of the Hawk Project Office was host to a meeting of logistics experts from the NATO-Hawk Production Logistics Organization last week.

Three NATO countries were represented. The four-day meeting was held under the direction of Col. George H. McBride, the Hawk-NATO Hawk Project Manager.

The Hawk air defense missile system is one of the few American weapons manufactured both in the U.S. and by NATO countries overseas.

Joe Norris, Chief of the International Assistance Division which is located here, said the discussions ranged over such topics as supply, maintenance, technical assistance, planning, contracting and systematic exchange of information.



GUARDIANS—The color guard is dwarfed by the Redstone missile during a Retreat Parade and Review Friday afternoon. The missile was officially retired from the Army's missile Arsenal after serving as a reliable vehicle for a number of advances in the "state of the art," spanning more than ten years.

'Old Reliable' And Soldiers Honored Here

Technology and advances in the state of the art retired the venerable work horse on which the Army's missile program cut teeth a decade ago.

At the final retreat parade and review for 1964, ceremonies marked the passing of an era with the retirement of the Redstone missile from the Army's arsenal—an old reliable now replaced by the more versatile battlefield weapon Pershing.

The ceremonies also marked a milestone passed for eleven military men who retired from active military careers aggregating more than 200 man years in the service of their country.

Speakers at the ceremony were Maj. Gen. John G. Zierdt, Commanding General of the U.S. Army Missile Command, and Dr. Werner von Braun, a director in the Army's missile program when the Redstone missile was conceived and developed and now Director of the Marshall Space Flight Center.

The complete text of the two speeches follow:

★ ★ ★

Maj. Gen. John G. Zierdt

We depart from our normal ceremony this afternoon for the first, and quite probably the last time. This parade marks the last official act before a well earned retirement for 13 soldiers.

They have served the Army faithfully and the United States honorably through long careers and they have my heartfelt "Well Done."

But we pass the same milestone here today for the U.S. Army's Redstone ballistic missile, another soldier completing long and honorable service after spreading the name and reputation of this Arsenal and its people throughout the world.

We have called this missile "Old Reliable" . . . and certainly it earned the name.

We have called it "The Army's Sunday Punch" . . . and those who face us across the frontiers of freedom respected that punch.

We even called it "Major" at one time, but that was in its infancy. (See RETIREMENT on Page 5)

\$44 Million For Missiles

The U.S. Army has announced the award of seven contracts totaling \$44,191,742 for work on the Hawk, Pershing and Redeye missile systems, and exploratory development of solid propellants.

The largest award, \$23,206,535, went to the Eclipse-Pioneer Division of the Bendix Corporation for production of equipment for the Pershing missile system. Work will be done at the Teterboro, N. J., Bendix plant.

Another award for Pershing work went to the Martin-Marietta Co., Orlando, Fla., in the amount of \$9,300,000 to cover production

of Pershing missiles. The work will be performed in the company's Orlando plant.

The Raytheon Co., Lexington, Mass., received three awards for design and development work on Hawk and for production of Hawk components. Two awards, one for \$2,900,000 and one for \$1,759,000 are for the development effort on the Hawk. The other Raytheon award, \$1,180,207, will cover procurement of selected items of ground support and field maintenance equipment for the Hawk.

Most of the work under the (See MISSILES on Page 2)



HAWK INTERNATIONAL MEETING—The Hawk air defense missile system is unique in that it is one of the few American weapons that is manufactured both in the U.S. and by NATO allies overseas. Last week logistics experts from three foreign countries were at the Hawk Office for a series of talks. Attending the meeting were, from left to right: Joe Norris, Chief of the Hawk International Assistance Division here; Karl Rose, Germany; Col. Helmut Wolff, Germany; Commandant Jose Combes, France; Clifford Van Pelt, formerly with the Directorate of Supply and Maintenance here and now with the NATO Hawk Office in Paris; and Col. Frederik Wisemeyer, the Netherlands.

The Redstone Rocket

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Rocket Ruminations

The music that can deepest reach,
And kill all ill, is cordial speech.
—Ralph Waldo Emerson

Why Army Accident Prevention?

This Nation's Army is the only Army in the world that has a complete accident prevention program. Why?

For the Army to be 100% combat effective, it must be ready to go when needed. The Army's annual total of 35,000 accident, 1,200 deaths, and 25,000 disabling injuries degrades and is the greatest deterrent to combat readiness. It little matters that the soldier is less likely to be killed or injured in the Army than the average civilian in the Nation's work forces.

The Army's goal in accident prevention is a zero rate and results in a constant effort for improvement.

The Army is obligated to provide the soldier an environment in which he can perform his duties without undue danger to his life and health. Traffic accidents demand the greatest toll and is the reason that every Army installation has a well established traffic accident prevention program.

The Army wholeheartedly cooperates in the accident prevention efforts of communities, states, and the Nation as a whole in an effort to extend the safe environment for its soldier and civilian members.



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MISSILES

(Continued From Page 1)

Hawk contracts will be performed in Massachusetts with a small percent going to Oxnard, Calif.

Engineering services for the Redeye will be furnished through a \$3,900,000 contract to General Dynamics/Pomona, a division of the General Dynamics Corporation. The work will be performed at the Pomona, Calif., facility of the corporation.

The Rohm and Haas Co. received a \$1,946,000 award to cover exploratory development of solid propellants at their Redstone Arsenal Research Division.

The Pershing is a two-stage solid propellant, surface-to-surface guided missile designed for general support of the field Army. It is the Army's improved weapon which replaced the Redstone missile.

The Hawk is an air defense guided missile system which can search out and destroy attacking high performance aircraft on air-breathing guided missiles at low altitudes.

Redeye is a man-portable, shoulder fired weapon to provide combat troops in the forward battle area the capability of destroying low flying aircraft.

The Pershing Project Manager is Col. Edwin I. Donley; the Hawk Project Manager is Col. George H. McBride; and Col. A. W. Reed is the Redeye Project Manager. They manage the missiles systems from their headquarters at the Army Missile Command.

The contracts for Hawk and Pershing were negotiated and executed by the Procurement and Production directorate at the Army Missile Command. Col. B. A. Saholsky is the P&P Director. The Los Angeles Procurement District negotiated the Redeye award.

GATE

(Continued From Page 1)

weather, test firings there have delayed the project. Ashburn & Gray, Inc. of Huntsville is doing the work under supervision of the U.S. Army Corps of Engineers.

When the gate is re-opened, it will be on an experimental basis for the volume of use to be evaluated. It is expected that the gate



GRADUATE STUDY CONFAB—Members of the Joint Graduate Study Steering Committee and the University of Alabama Huntsville Campus faculty conferred on the program at Tuscaloosa. Shown boarding the plane at Redstone Army Airfield are Dr. John P. Hallows, Jr., chairman of the committee; Clyde Reeves and Dr. Charles Scott of the University Huntsville faculty; and Dr. William R. Lucas, MSFC, past chairman of the committee. The Joint Graduate Study Steering Committee is sponsored by the Army Missile Command and the Marshall Space Flight Center.

will be open Monday through Friday from 6 a.m. to 6 p.m., except when firing is scheduled on the range.

Work on the road is also underway outside the Arsenal as two 'elbows' are being eliminated. Madison County Engineer T. D. Weathers said he expects the new sections around the right-angle curves to be ready for traffic by the time Martin Road on the reservation is re-opened. If not, he pointed out, the old sections can still be traveled on the western perimeter of the Arsenal.

Gate 7 handles traffic coming off the Huntsville-Decatur Highway. This traffic has been using

Gate 9 on Rideout Road since the west gate was closed.

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TRAFFIC CONTROL BOARD—Attending the second meeting of the Arsenal Traffic Control Board were, left to right: R. H. Labbe, MSFC; G. W. Breedlove, Provost Marshal's Office; Col. William Luk, Provost Marshal; Paul Hodson, OGMS Safety Officer; Sgt. Charles Snyder, OGMS Safety Officer; and Robert H. Seavers, Missile Support Command Safety Officer.

TRAFFIC

(Continued From Page 1)

duce fatalities, then, the frequency of accidents must first of all be reduced, particularly those involving speed, since it is the impact from speed, in conjunction with such mistakes as failure to yield right-of-way, failure to stop for stop light, that causes fatalities.

The Board further determined that statistically Redstone Arsenal can expect a fatality by the end of February unless measures are taken by motorists to upset these adverse statistics.

In June of 1963 traffic authorities established a point system for assessing penalties against traffic violators. When a motorist amasses 12 points, he must scrape off his decals and forego the right to drive on post for six months or more.

The easy way to pick up twelve points in one lump sum is to be convicted of one of the following offenses: driving while intoxicated, willingly letting someone else who is intoxicated use your car, manslaughter, negligent homicide, or assault with an automobile, intentionally leaving the scene of an accident involving death or personal injury without rendering aid or information, using a vehicle to commit a felony, or operating a vehicle after suspension or revocation of the operator's permit or decals.

A reckless driving conviction normally costs five points, but two in a 12-month period means suspension of driving privileges. Points given for other offenses are: intentionally leaving the scene of an accident involving property damage to another without giving identity, 6 points; speeding, 10 MPH over limit, 2 points, 11-20 MPH over, 4 points, and over 20 MPH over limit, 4 points; failure to obey traffic signals or instructions of officer, 3; failure to report being in accident when required, 2; knowingly operating an unsafe vehicle, 3; other moving violations, 2; failure to comply with registration requirements, 1.

Any points assessed against a motorist remain in effect for 24

months—or in the case of military, until reenlistment, whichever comes first.

In conducting detailed analysis of accident statistics the board found that the major causes of accidents in the order listed consisted of failure to yield right of way, improper backing, failure to control vehicle, failure to observe stopped traffic, following too closely, and misjudging clearance. In respect to groups that cause accidents, statistics revealed that MICOM and OGMS civilians cause 5.9 per cent per 1000 vehicles registered, MSFC civilians cause 6.2 per 1000. The rate of the military drivers on the arsenal, is commensurate with those above, considering added exposure during the evenings and on weekends.

The board also found that

the predominant number of accidents are caused during the two peak traffic periods, between 7:00 and 8:10 in the morning and between 4:00 and 7:30 in the evening. So, if you are driving at these times, remember that your probability of becoming involved in an accident is highest. The most accident prone areas are intersections, particularly those intersections where traffic lights have been installed and intersections with great traffic flow. Also, a significant percentage of accidents occur in parking lots.

The board also noted that weather had an influence on accidents. For example, when it rains during either morning or afternoon peak traffic periods, ac-

cidents occur at about four times the daily average.

A siren and a red light flashing in the rear view mirror is one experience that evokes the same emotion in every American motorist. It is regarded by some as one notch above arm twisting and eye gouging. On dull days cartoonists pull this same old scene out of their bag and dream up some new punch line for it.

At Redstone traffic law enforcement is directed most at (1) major accident causing violations, (2) groups that cause accidents, primarily those that cause most of them; and (3) the times and places where accidents are most likely to happen. Enforcement, along with other measures (signs: 35 MPH When Wet) is also applied to neutralize the effects of bad weather. These combined procedures are called "selective enforcement."

Because of the dangers of speeding, enforcement of posted speed limits is emphasized.

However, traffic officials say, all of this enforcement becomes useless unless unit

commanders and supervisors take appropriate judicial or administrative action on offenses reported to them.

While enforcement does not lead to popularity, statistics gathered here over the past years show that when enforcement increases accidents go down.

To make the Arsenal's enforcement program as painless and yet as effective as possible, military police do not have any enforcement crackdowns, drives, or campaigns. To the maximum extent possible enforcement is applied uniformly throughout the year. Any deviation results in a decrease in the strength of the military police or diversion of strength or other areas of endeavor such as handling public events, participating in parades, or supporting some other project.

As a reminder, the military police caution motorists that radar is used on the Arsenal during daylight driving as well as nighttime, and that speeding during hazardous weather conditions is checked even more closely than normal.

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<p>1961 CHEVY IMPALA 2-door hardtop, V8, auto, power steering, brakes, radio, heater and white tires, a real cream puff. \$1675.00</p>	<p>1961 FORD GALAXIE 500 4-dr., Sedan, V8, auto, radio, heater, power steering, white tires. \$1175.00</p>	<p>1963 RAMBLER Classic, 660, 4-dr. sedan, 6 cyl., straight shift radio and heater, priced at. \$1575.00</p>	<p>1961 BUICK ELECTRA 225 Hardtop fully equipped local one owner car. Real nice. \$2075.00</p>
<p>1965 FORD MUSTANG 2 door hardtop, 6 cyl., floor shift, radio, heater, white tires. \$2375.00</p>	<p>1958 T-BIRD V8. Automatic, 2-dr., Hardtop, power steering & brakes, real clean automobile, priced to sell at wholesale. \$1075.00</p>	<p>1963 RAMBLER Classic, 770, 2-door sedan, 6 cyl. auto, radio, heater, white walls, bucket seats, red interior, local one owner car. \$1875.00</p>	<p>BARGAIN ROW</p> <p>1957 FORD 4-dr. Hardtop, V-8, auto. No money down, \$17.42 mo.</p>
	<p>1960 T-BIRD 2-door Hardtop, fully equipped. wholesale at. \$1475.00</p>	<p>(8) 1964 RAMBLERS Classic 660's, V8, auto. radio, heater, power steering, local one owner cars from 5,000 to 7,000 actual miles just like new, price. \$2375.00</p>	<p>1957 CHEVY 6 cyl., S.S. No money down, \$17.42 mo.</p>
	<p>1960 OLDS 88 2-dr., hardtop, V8, auto, power steering, brakes, white walls, a real nice car for. \$1275.00</p>	<p>1963 RAMBLER Classic 660 3-seater station wagon, "6 Auto" radio, heater. Local one owner sold new here. \$1875.00</p>	<p>1953 BUICK Straight 8 stick shift. No money down, \$15.00 mo.</p>
	<p>1961 OLDS 88 4-dr., hardtop, V8, auto., power steering, brakes, radio, heater, white walls, local one owner car. \$1375.00</p>	<p>1961 RAMBLER AMBASSADOR 4 door sedan, V-8, auto, power steering and brakes, radio, heater, white walls. \$1075.00</p>	<p>1957 BUICK Station wagon, V8, auto., fully equipped. No money down. \$17.42 mo.</p> <p>1958 RAMBLER 4-dr., sedan, 6 cyl. straight shift. no money down. \$17.42 mo.</p> <p>1947 STUDEBAKER ¾ ton pickup, no money down. \$15.00 mo.</p>

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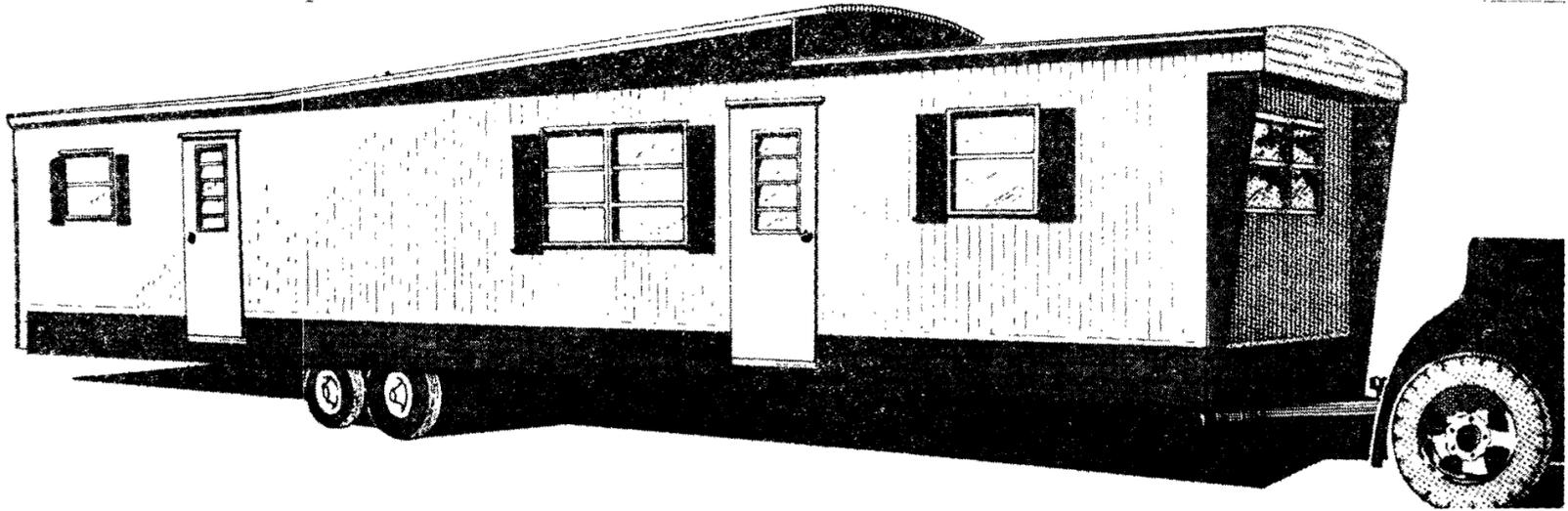


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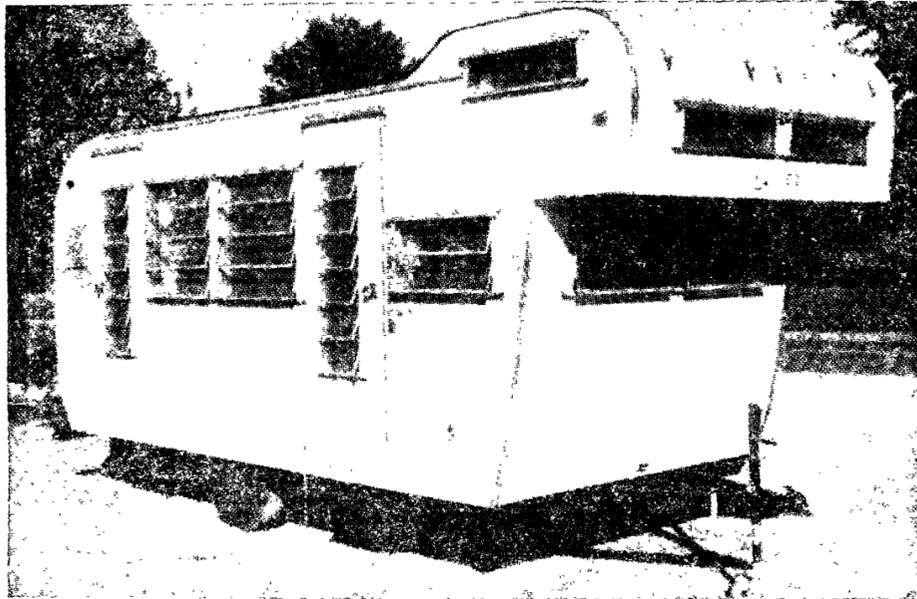
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RETIREMENT

(Continued From Page 1)

fancy.

Once Called Major

I know many of you here today have personal memories of those days more than a decade ago when the Army was feeling its way into the missile business, when Huntsville was better known as the Watercross Capital of the World, and the Redstone missile was called "Major."

I invited Dr. von Braun and all our neighbors at the Marshall Space Flight Center to join the Army team for this occasion. I know they share our feelings about the Redstone missile, just as they shared the excitement and the disappointments, the moments of triumph and the years of plain hard work that went into the Redstone program.

The Army is not overly sentimental about equipment that has done its job and weapons that on-rushing technology has overtaken. Certainly the hectic pace of the missile business leaves little time to pause and reminisce. Those who are making history seldom have time to write it.

But today it is no more than right for us . . . particularly for all of us here at Redstone Arsenal . . . to pause for just a moment and give this missile a last salute.

We Made Redstone

For we made Redstone . . . and in a very real sense, Redstone made us.

Just think for a moment what might have been if Redstone had been a monumental flop instead of a monumental success. No man can say for sure, but I suspect that Huntsville, and Redstone Arsenal, and the Marshall Space Flight Center all owe more than a little to this missile. And for that reason, Redstone always has, and always will, lay special claim on all of us who came in contact with it.

Fourteen years is not a very long time, but it's an eon in the missile business. Almost all we have learned about missiles in this country, almost everything that has been accomplished with them has been done in the 14 year span of the Redstone missile's lifetime.

A great deal of that learning process was accomplished with Redstone.

First Ballistic Missile

It was the first large ballistic missile developed in this country to reach operational status, the first to be fired by soldiers, the first to join U.S. Army units serving overseas in defense of freedom.

Redstone gave the Army our first experience with mobile, long

range missiles. The impact of that experience on Army tactics and organization—indeed on the entire future of land warfare—more than justified the investment made by the American taxpayers in the Redstone system.

The first object fired over an intercontinental range was launched by a Redstone.

The first man made object flown into space and recovered intact was launched by a Redstone.

The first missile deemed reliable enough to carry and detonate a nuclear device was a Redstone.

Our first scientific earth satellite was launched into orbit by a Redstone.

Our first astronaut rode a Redstone.

Taught Us Many Things

But we honor it today for contributions to the Army and the cause all soldiers serve. It stood guard in Europe through six troubled years and the best testimony to its service is that it was never fired in anger.

Now it passes into retirement. The ground equipment of the system is being used in other government programs. The remaining missiles will be saved and perhaps fired as targets someday to aid us in our attempts to perfect a defense against missile attack.

The Redstone missile taught us many things. It served the Army and our nation with distinction. It helped keep the peace.

No soldier could aspire to more.

★ ★ ★

Dr. Wernher von Braun

I am delighted to take part in ceremonies giving a farewell salute to the Redstone missile. I almost feel as if I were retiring myself, for the Redstone story embraces a big part of my life.

I share your feeling of pride in the Redstone today, just as I shared your hopes and aspirations for this missile system during my 14 years of service to the U.S. Army as a civilian employee.

The Redstone missile's contributions to peace are immeasurable. It stood with NATO forces as a strong deterrent power against aggression.

Contributed To Advance

Its contributions to the advance-



RECALL EARLY DAYS—Two men who have seen more than a decade of advancement in missilery as weapons and manned vehicles give praise to the reliable weapon which chalked up many milestones to place missile progress in its present frame. Sharing the reviewing stand are eleven of the military men who retired Friday and who shared the memories of the technological advances. The speakers are Dr. Wernher von Braun (left) Director, Marshall Space Flight Center and Maj. John G. Zierdt, Commanding General of the Missile Command.

ment of rocket technology are equally impressive. All the major areas of rocketry—such as propulsion, guidance and control, electronics, and materials—were advanced during the Redstone's development.

The Redstone's performance was demonstrated during the numerous successful R&D launches. Reliability became its trademark. As a result of its foresight and persistence, the Army had a booster—ready, willing, and able—to carry out assignments in space after Sputnik I awakened the nation to the fact that the Space Age was upon us.

Jupiter C Proved Capable

The capability of the Jupiter C had already been demonstrated. Using a Redstone as a booster, and with solid propellant upper stages, it had flown the first nose cone for successful re-entry into the earth's atmosphere. We knew then it could orbit a satellite.

When the Jupiter C launched Explorer I, it carried more than a 31-pound satellite into orbit—it carried aloft a big chunk of the nation's prestige.

And then later the Redstone carried an even more precious cargo into space—man himself. The reliability that had been painstakingly built into the Redstone became its chief asset for manned space flight.

Carried Astronauts

Alan Shepard and Gus Grissom became the first Americans in space when they were given sub-orbital rides down the Atlantic Missile Range by modified Redstones in NASA's Project Mercury. The elation of the public soared along with the Redstone.

The Redstone was the pride of the Army—and much of the Free World—in its hey-day. It has clearly earned a lasting niche in rocketry's hall of fame.

Its retirement today — after much less service than the individuals who are retiring from the Army—reflects the swift pace of technology as the Army and NASA move on to more advanced systems. Whatever the future brings, however, it cannot overshadow or diminish the honor and glory which we proudly bestow upon the reliable Redstone.

CONARC PATCH WORN AT SCHOOL

The history of the blue, white and red shoulder patch now worn by military personnel of the Ordnance Guided Missile School was explained this week.

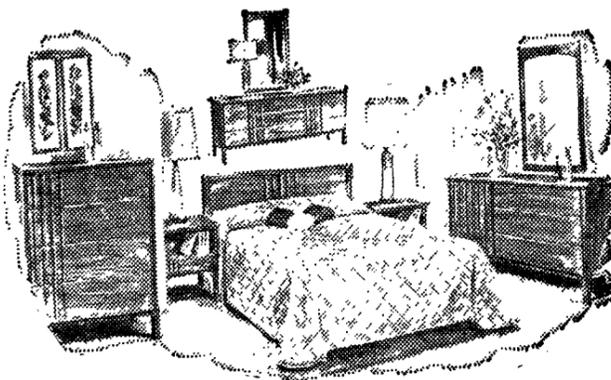
The patch, which became official at OGMS when winter uniforms were donned in mid-October, is that of the U.S. Continental Army Command. OGMS and 23 other Army schools are elements.

All wear the same patch. CONARC headquarters at Fort Monroe, Va., explained that the patch was personally selected by Gen. John J. Pershing for his headquarters of the American Expeditionary Force in France during World War I. Prior to becoming a shoulder patch, it was worn as an arm brassard by his staff officers. However, the red section was worn on top.

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Understanding And TLC Win Youngsters Hearts

One little two-year old lady in a pert pink playsuit stood in the corner of a gaily decorated room and looked out shyly at children playing with a toy train. Ten minutes later she was in the middle of the group laughing happily with the others.

Esther Ewing, the supervisor, and the attendants at Redstone Arsenal's Rocket Nursery had worked their magic again. Esther, who has been in direct charge of the Nursery since 1956, has an inherent talent where Missilemen's offspring are concerned. Some youngsters don't want to even come inside unless they see Esther's car parked beside the Nursery!

She speaks softly and kindly to the little people as she gently handles them. Those old enough to walk tug at her skirts and look up at her with delight and trust.

Her husband, John D., is employed in the Maintenance Support Division of the Army Missile Support Command, and is also a Missionary Baptist minister.

Esther says every day brings so many new experiences and adventures that she can't sort out and recall any outstanding ones. "Children new to the Nursery will stand off by themselves until we get down to their level and talk to them to draw them out and make them feel they belong with the others," she said, "And then they play and get acquainted in a hurry."

One mother tells of Esther's ability to sense when a child isn't quite up to par although there are no real outward signs of illness. Esther once gave special care and attention to a little fellow because "she just had a feeling" there was something amiss. Shortly thereafter, the baby was seriously ill, but could have been much sicker if it hadn't been for Esther's intuition.

When the nursery was organized in 1956, Esther was engaged by Mrs. John Zierdt, whose husband is now Army Missile Command's Commanding Officer.

The Nursery was opened in the old Chapel Annex, later moved to a building in the Squirrel Hill area, then to their present location on Goss Road and Jupiter Drive, in February, 1961. The Nursery building appears to have been originally a private residence that may have been part of the real estate acquired by the Army when the arsenal was built in 1941. It has also served as the home of Chey When and as the Girl Scout House.

At first, the Nursery was open only one day a week. Patronage has grown by leaps and bounds. The Nursery is now under the cognizance of the Army Missile Support Command Joint Activities Council, and is operated on a non-profit basis solely as a convenience to



CAREFUL, NOW—Carefully supervised play is a feature of the Rocket Nursery. Donna Cogswell is the attendant in charge of the small fry lined up to try the slide in the spacious play yard at the Nursery.

its patrons, considering the welfare and happiness of the children in its care of prime importance.

The Nursery is operated for the benefit of all active and retired military personnel, associate members of the Officers' Open Mess and NCO Open Mess and their house guests.

The JAC appoints a committee, to supervise Nursery operations, composed of two members of the Officers Wives Club, two members of the NCO Wives Auxiliary, a Coordinator from the Officers' Open Mess and an assistant Coordinator from the NCO Open Mess. Mrs. Martin Pearson of the Officers Wives Club is the able chairman. The multiple problems and matters associated with the Nursery come to her attention.

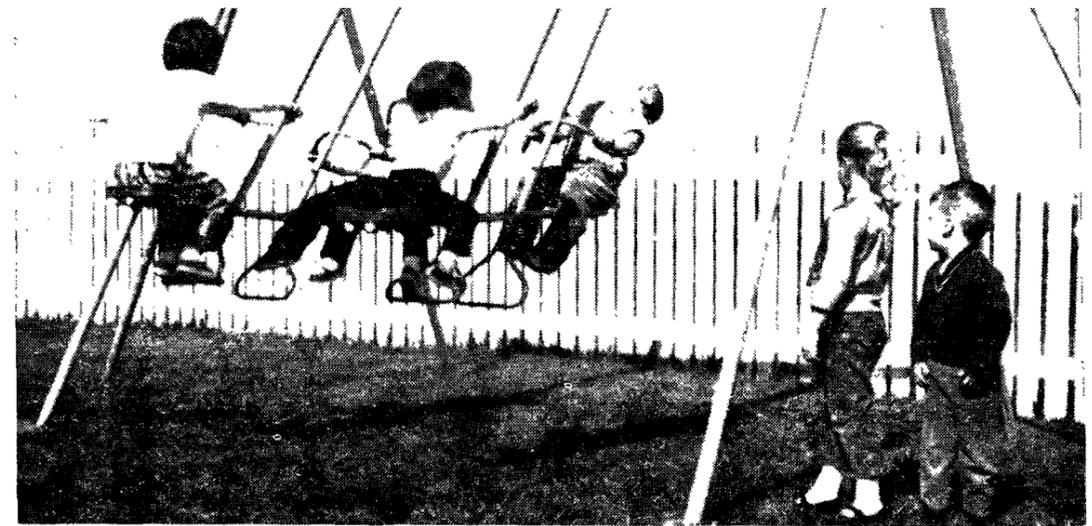
One of the most recent innovations at the Nursery covers a monthly plan rate schedule designed particularly for working mothers. The monthly membership plans commence on the first day of the month and are payable in full by the fifth of the month.

The hours under the plan vary from 30 through 200 hours a month which may be purchased according to the patron's needs. For instance, Plan A is for thirty hours a month, and costs \$9.00 for one child, \$12.00 for two children, and \$15.00 for three children from the same family. Plan D is for 200 hours and runs \$50.00 for one child, \$70.00 for two and \$90.00 for three. Plans B and C are for 50 and 100 hours respectively with

(Continued on Page 7)



KITTY-CATS AND KINDER—Some of the charges at the Rocket Nursery sit in one corner of the playroom where they have been playing with little educational toys just their size.



WHE-E-E-E—We fly through the air on a bright, sunny day in the Rocket Nursery's well-equipped play yard.



NAP TIME COMING UP—Effie Le Duc, an attendant at the Rocket Nursery, holds one of her "customers" as two others contemplate the prospects of an afternoon nap in the well-equipped Nursery.

money

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YOUNGSTERS

(Continued From Page 6)

corresponding rates.

The Nursery administration asks that reservations be made before bringing in a child—call 877-4801. Working mothers can make arrangements on a monthly basis. For more details and rules concerning the monthly plan, contact the Nursery.

There are also two classes of hours of operation: Class I, open by reservation only; and Class II, special opening by reservation and guarantee of the minimum fee. The rates and charges are: one child, 35c per hour; two children from one family, 45c per hour; and three or more children from one family, 55c per hour.

The full hourly charge will be made for any fraction of an hour in excess of 10 minutes. Parents who leave children after the scheduled closing time will be subject to an additional charge \$1.00 for each 10 minutes, or a fraction thereof.

The hours now maintained for Class I are: Monday through Thursday, 8 a.m. to 5:30 p.m.; Friday, 8 a.m. to 1:30 a.m.; and Saturday, 6:30 p.m. to 1:30 a.m.

Special and holiday schedules are published in the Daily Bulletin as appropriate.

Children under three months and over 12 years of age are not accepted.

Juice and crackers or cookies are

furnished by the Nursery at 10 a.m. and 2 p.m. A hot lunch costing 25c is served at 11:30, or children may bring their own lunches.

All the attendants have taken the Red Cross Health Course and have full instructions on fire regulations. Esther is the fire warden. The Nursery has ramps to get the cribs out of the building quickly in case of emergencies.

At the side and back of the Nursery is a fully equipped fenced lay ground with sand boxes, swings and slides.

There are good reasons why reservations are required at all times. Bed and cot limitations restrict the number of children who may be taken at the Nursery at night. Fire and Safety regulations set a maximum of 60 as the number of persons who may legally occupy the building. It is important to know the number of children expected so that an appropriate number of attendants can be made available to supervise the children.

There are other rules and regulations covering various contingencies which any prospective patron should read and understand before using the Nursery.

The primary duty of all Nursery employees is to provide the maximum care and safeguarding of the children entrusted to it. They fulfill their obligation.



SNACKS NOW BEING SERVED—Little people at the Rocket Nursery gather round for their mid-morning refreshments of juice and crackers. Attendant Louisa Voisine pours the juice and Mary Gospodarek hands out crackers.



IT'S SO NICE TO SEE YOU—Esther Ewing, supervisor at the Rocket Nursery on Redstone Arsenal, meets Lady Bird Johnson during the First Lady's visit to Marshall Space Flight Center last Spring.

Value Engineers To Meet At Army Missile Command

The Army is inviting hundreds of value engineers and their managers from industry, government, colleges and universities, many in the Southeast, to participate in its first Value Engineering Symposium for advancement in the state-of-the-art at Redstone Arsenal Nov. 18-19. They will have an opportunity to hear an address by the Deputy Assistant Secretary of Defense, George E. Fouch.

Fifteen technical paper presentations by specialists will demonstrate a variety of V. E. techniques applied in design, development and production, as well as in the management and administration areas.

The two-day symposium, sponsored by the Missile Command, will be in Rocket Auditorium. It will be conducted by the Directorate of Procurement and Production. Registration will be held during the day of the 17th at the visitor reception center, and in the lobbies of the Goldenrod, Kings Inn and Albert Pick motels, and the Russel Erskin Hotel in Huntsville.

Value engineering is a relatively new technological science. Its purpose is to achieve the required function of a piece of hardware at the lowest cost through material substitution and changes in design. In its role under the Department of Defense cost reduction program, it has been dubbed as the most promising element in the Government's cost reduction effort.

Fouch will deliver the keynote address at 8:45 a.m. Wednesday, Nov. 18. In an Aug. 10th speech to the Atlanta, Society of American Value Engineers chapter, the Assistant Secretary of Defense had this to say about the current status of the Department of Defense V. E. program: "Our savings have grown from \$18 million per quarter in fiscal year 1963 to \$25 million, \$35 million and \$59 million in the first three quarters of FY 64. We expect to substantially exceed our FY64 goal of \$116 million and more than double our FY63 achievements."

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SOCIAL ^{and} CLUB EVENTS

WILLIAM MATTHIS, MRS. McBREARTY WIN AT BRIDGE

Winners at Monday night bridge last week at the Squirrel Hill Officers Club were William Matthis and Mrs. Charles McBrearty.

Since men were in the minority, Mrs. Andrew Garrabrant, playing on the men's team was second for the men and Miss Carol Ann Salsky was second for the women.

Ten tables were in play during the evening.

Mrs. Robert Scott, 772-3273, takes reservations to play with the group.

MRS. MATTHIS WINS AT BRIDGE

The Thursday Bridge Group sponsored by the Redstone Arsenal Officers Wives Club had nine tables in play last week at the Squirrel Hill Officers Club.

ADMIRAL HUGHES SCHEDULES TALK

Rear Adm. William C. Hughes, Assistant Chief of Naval Personnel Department, Department of the Navy, will be the principal speaker at the Nov. 13 meeting of the Huntsville Reserve Officers Association.

Wives are invited to attend this dinner meeting at the Squirrel Hill Officers Club beginning at 6:30.

Afterward, an orchestra will play for dancing until midnight. Ticket salesmen include Bill Howard, 876-2071; John Harris, 534-7304; Bill Potter, 536-9355; Pete Redding, 876-1410, and Paul Bennett.

Winner was Mrs. William Matthis, with Mrs. Rex Javins second and Mrs. Raymond Astor third. Mrs. M. M. Schuput was low.

Reservations to play with the group are handled by Mrs. A. J. Matthews.

Wives Plan November Lunch At Club

Tuesday the Redstone Arsenal Officers Wives Club will lunch at the Squirrel Hill Officers Club and will hear Mrs. Alice McCrary discuss the antebellum homes in the Huntsville area.

The wives of officers assigned in the Directorate of Supply and Maintenance will be in charge of the lunch arrangements under the chairmanship of Mrs. Leonard Carlson.

Mrs. Curtis Ferrell will handle details for the menu and Mrs. Jack L. Sauer for the decorations.

Reservations can be made with Mrs. C. Powell, 877-5647; Mrs. C. Richards, 877-5775 and Mrs. W. Mehlinger, 877-5250. Friday is the deadline. For cancellations, noon on Monday is the deadline and will be accepted by Mrs. A. McNeil, 877-4364.

At The Service Club

By Brenda Hanson

For about a week, I've been consciously ignoring those Christmas candles and glittery balls on display downtown right beside the pumpkins and Halloween masks. If this "Get an early start" spirit keeps growing at the present rate, I predict that in a few short years we'll have one continuous holiday that lasts for three months and will be climaxed by the night St. Nick comes down on his witch's broom to chase the Thanksgiving turkey.

Therefore, this week at the Service Club is dedicated to sweeping away the leftover goblins and restoring order and sanity for a brief interval of non-holiday spirit before the turkeys and holly wreaths take over.

The first program is the meeting of the Enlisted Men's Council to discuss future programs. Anyone with any ideas for December's schedule should contact his unit representative before the meeting today. He'll pass the suggestion along to Betty Hayes, the program director.

Thursday at 7 the bridge club meets—with room for experts and instruction for beginners.

A shuffleboard contest is scheduled at 8 p.m. Friday. Saturday night, in the small lounge, we'll furnish cards and cigars for smoker poker.

Sunday, we get the day off to a bearable start with coffee call at 9 a.m. In the evening we'll dance to records in a "November Whirl."

Monday is game night and Tuesday a ping pong contest, both beginning at 8 p.m.—both prize winners.

MISCELLANEOUS

Those of you who missed "On With The Show" missed a good night of fun and entertainment. The show was a great success and enjoyed very much by all who attended.

Sneaking a peep at Betty's notebook of upcoming programs, I see several items of more than passing interest. For just a fast run-down of things you might not want to miss, try "Parade," a festival of musical holidays, sent to us by the Special Services Show Mobile from Third Army. Another

Movie Schedule

WEDNESDAY, 4 November

"Who's Been Sleeping in My Bed?" (M-YP)

THURSDAY-FRIDAY, 5-6 Nov.

"Roustabout" (F)

SATURDAY, 7 November

"Guns at Batasi" (M-YP)

SUNDAY-MONDAY, 8-9 Nov.

"The Visit" (M)

TUESDAY, 10 November

"Joy House" (M)

Two shows nightly at 6:00 and 8:30 p.m. Saturday matinee at 1:00 p.m. Sunday matinee at 2:00 p.m.

TOOL ENGINEERS TO TOUR PLANT

The American Society of Tool and Manufacturing Engineers will meet at 6 p.m. at the Pavilion Motel for dinner before touring the Worthington Corp. plant on Nov. 10.

Worthington manufactures air conditioning equipment. The tour will be conducted by Norm Boisvert, Lionel Taylor and John Zakanycz.

Reservations are being handled by T. D. Nichols, Harold McMurrin and E. L. Thompson, Jr.

program of interests is the "Comedyland of Music" featuring Delbert Bailey. Keep an eye on this column and try not to miss any of these.

Brenda

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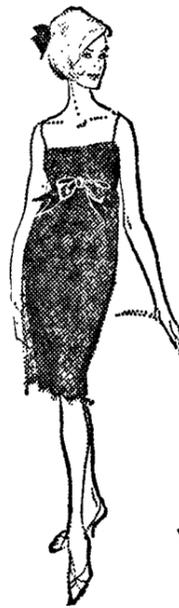
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GENERAL DUFF VISITS—Lt. Gen. Charles B. Duff, Commanding General of the Army Air Defense Command, visited the Missile Command and the Nike-X Project Office last week for a two-day series of briefings. Shown here greeting Lt. Gen. Duff at the Redstone Airfield are, left to right, Brig. Gen. Howard P. Persons, Deputy Command General of the Missile Command for Air Defense Systems; Lt. Gen. Duff; Col. Thomas W. Cooke, Commander of the Missile Support Command; Col. E. D. Mohlere, Missile Command Chief of Staff; Col. R. B. Braid, Deputy Nike-X Project Manager; and Lt. Col. J. G. Waterman, ARADCOM Liaison Officer.

Thiokol Awarded AF Study on Propulsion

ELKTON, Md. — The United States Air Force today announced the award to Thiokol Chemical Corporation, of a six month study program to analyze and determine rocket propulsion requirements for future air-launched weapons. Award for the competitive contract was made by the Rocket Propulsion Laboratories, Air Force

Systems Command, which is responsible for overall program direction.

The study will define general characteristics and requirements for weapons systems based upon hypothetical mission trajectories. Underlining the program's importance is the fact that it will establish specific areas of propulsion technology that must be investigated now to assure that future mission and operating requirements can be met. Particular emphasis will be on storable packaged liquid and solid propellant systems, as well as air-augmented versions of each.

General of the Ordnance, he is responsible for the research, development and production of weapons and equipment for the Army.

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British Ordnance General Briefed On Systems Here

British General Sir Charles Phibbs Jones was at the U.S. Army Missile Command Thursday and Friday for discussions on several Army missile systems. He is Master General of the Ordnance Ministry of Defense (Army). Accompanying Gen. Jones when

he flew into the Redstone Arsenal Airfield Wednesday afternoon, was Brigadier Leonard Walter Jubb, Director of Munitions, Defense Research & Development Staff, and Maj. Charles Jeremy Rougier, Military Assistant to MGO, Ministry of Defense.

While at Redstone, the British visitors were briefed on the Lance, Mauler, Redeye, TOW and Hawk missile systems, and Medium Anti-tank Assault Weapons.

Gen. Jones, a native of Kenmare, Ireland, was commissioned in 1925 in the Royal Engineers and served with the Royal Bombay Sappers and Miners in India from 1928 to 1934. During the Dunkirk Campaign in Europe in 1940 he was the Executive Staff Officer of 127 Infantry Brigade and, on return to the United Kingdom, served in various staff capacities until going to Washington in 1941 as a member of the British Staff Mission. He commanded the Royal Engineers of the Guards Armoured Division for a year before the Normandy landings in 1944.

The High-ranking British Army officer was awarded a Knighthood in 1960, and promoted to a four-star general in 1963. As Master

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TOP BEAUTICIAN

Mrs. John (Carole) Knox, left, Nita and Dave's Beauty College, is shown with a trophy she won last week in the Regal-Andre Student Contest in Birmingham. Linda Sorter, right, is wearing the prize-winning hair creation.

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UGF PROGRESS REPORT:				
Organization	Fair Share Potential	Pledged To Date	Collected To Date	% FS Collected
Office, & Immediate Staff, CG, MICOM	\$ 657	\$ 623	\$ 579	88.
Air Defense Systems	15,911	13,169	11,097	70.
Land Combat Systems	15,171	12,708	8,784	57.
Hqs. MICOM Staff Offices	5,565	4,205	3,198	57.
Comptrolled & D/P	4,356	2,964	2,443	56.
Qual & Rel Mgmt. Office	871	885	536	61.
Army Missile Support Cmd.	64,754	46,996	38,837	60.
Nike X Project Office	7,528	7,186	6,399	85.
Ord. GM School	18,659	17,462	14,496	77.
Missile Intelligence	1,911	1,044	773	40.
Proc & Prod Dir	27,494	26,637	23,369	85.
Res & Dvmt Dir.	37,187	33,458	27,583	74.
Sup & Maint Dir.	34,593	32,739	26,696	77.
Rohm & Haas	6,600	6,711	6,711	101.
Thiokol Corp.	22,350	18,972	18,972	84.
Area Engineers	970	613	568	59.
Non-Appr. Activities	1,677	1,289	775	47.
Total	\$266,255	\$227,661	\$191,816	72.



BRIEFS MISSILE COMMAND—Air Force Col. Herbert Waldman briefed the Army Missile Command recently on the Defense Department's new Cost and Economic Information System. Here he explains a point to Vic Robertson of the Missile Command's Procurement and Production Directorate. Col. Waldman is assigned to the office of the Deputy Secretary of Defense (Programming).

UGF Drive Nears Record

With the collections and pledges inching toward an all-time record M. C. Taylor, General Chairman of the 1964 Redstone Arsenal United Givers Fund drive, has called on solicitors to redouble their training effort to insure that the final report reflects support by the entire Redstone Arsenal work force.

Taylor was making reference to the small number of employees who have not made a pledge to the drive. At the conclusion of the fifth week of the drive, approximately six per cent of the 12,917 personnel had not made a pledge.

Pledges from other 94 per cent total \$227,661. Of this total \$191,816 had already been collected and deposited to the account of some 18 participating county or municipal fund raising agencies.

Approximately 75 per cent of the participants in the drive have pledged or contributed a Fair Share.

In commenting on the latest report, Taylor said that, "We are on the threshold of an outstanding victory. "However," he added, "From here on out we are going to have to work hard if we are to go on to a record breaking performance."

Besides striving to enlist the support of the present non-participants, Taylor called on the solicitors to place an even greater

Nov. 20, 1948 — New balloon altitude record of 26.5 miles by U.S. Army Signal Corps, one of the six technical services whose material functions were taken over by Army Materiel Command.

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5 OGMS Sergeants Remember Redstone When

Five young members of the staff of the Army Ordnance Guided Missile School find themselves listed as aging pioneers in the fast-moving field of missiles.

Though barely in their thirties, the quintet have more than 40 years of combined experience behind them in maintaining the Army's famous "Old Reliable" Redstone missile which was formally retired from active duty at a special ceremony and parade Friday.

As the band played, Sergeants First Class Amble B. Carter, Lawrence L. Schuldheisz, H. L. Truitt, Edwin L. Gedling and S/Sgt. Gentry M. Hawk remembered back to 1955 when the now-deactivated 78th Ordnance Detachment at the Missile School began to gear up for training the first support units for the brand-new ballistic missile which was to be deployed under crash conditions to bolster NATO defenses in Germany.

One of the predecessors of the Army Missile Command, the Army Ballistic Missile Agency, was still perfecting the Redstone in its research and development laboratories—and the missile was also being adapted for a series of successful space flights that have now become history.

With Redstone missile hardware in short supply, the Army decided to short-cut its usual training methods.

While the ABMA scientists, headed by Dr. Wernher von Braun, were still working on the missile, elements of the 40th Field Artillery Group which was destined to take the missile into the field in Germany, were sent to the Missile School. The four sergeants became part of the new 630th Ordnance Detachment responsible for field maintenance of the new weapon.

A unique on-the-job training cycle began. The Redstone unit worked directly with the ABMA scientists to acquire the necessary data for both firing and maintaining the weapon. Simultaneously, the field manuals and many of the texts required for training other Redstone units were rushed to completion.

This was the first—and perhaps the only time—that a tactical missile unit and its support elements were trained by the research and development experts who were bringing a new weapon into being.

Despite the unorthodox methods, the development deadlines were met, and the 217th Field Artillery Missile Battalion established its bases in Europe for a long vigil in defense of the free world.

Rapid developments in missile technology have made the fine old weapon obsolete.

But the five young men who helped to keep it ready to repulse any Communist thrust into Western Europe are far from out-of-date.

Sgts. Schuldheisz and Gedling are back at the Missile School as instructors on the Redstone's successor—the Pershing which packs

far more power and range and is displayed in Europe with both U.S. and German forces. Sgt. Truitt is enrolled in Pershing courses.

Sgts. Carter and Hawk have gone on toward another missile frontier. They're helping prepare training material for the Lance missile which will replace Lacrosse and Honest John in support Army divisions during the next decade.

Which could indicate that old missiles may die but there'll always be a job for a modern missile man.

Kentucky Colonel Is Safety Chief

From civilian chief to Kentucky Colonel. That's the jump made by Thomas W. Davidson, Chief of the U.S. Army Missile Command's Safety Division at Redstone Arsenal.

Davidson, a native of Paducah, Ky., has just received a "commission" as Kentucky Colonel from Gov. Edward T. Breathitt.

He is the son of Mrs. Joab Watson of Paducah. His wife is the former Margaret Yarbrow, also of Paducah.

BIRDIE Changes Home Base

An electronic fire distribution system which will strengthen the air defense capability in the Southeastern United States through coordination of surface-to-air missile firing has been installed at Homestead Air Force Base, Fla.

A \$142,000 contract for the installation of equipment was awarded Martin Company's Orlando (Fla.) Division by the U.S. Army.

The transistorized system, called BIRDIE (for Battery Integration and Radar Display Equipment) is manned by the 13th Artillery Group. BIRDIE automatically accepts, generates, processes, displays, and exchanges vital target data between batteries of the Army's Nike Hercules high altitude and Hawk low altitude-to-air missiles and the controlling Army Air Defense Command Post.

BIRDIE uses inputs from higher control elements in the air defense system or can operate autonomously using target information from its own radar. Martin Co. designed and built the BIRDIE under Army direction and has installed operational systems in various air defenses in the United States.

The BIRDIE destined for Florida replaces other fire coordination

equipment installed there in early 1963. BIRDIE was moved from another part of the United States where steps have been taken to expand the coverage of an adjacent Martin-produced Missile Master air defense system.

Transfer of the BIRDIE system to Southern Florida fulfills one of the objectives of the system when it was designed; the ability to be moved from one location to another and to have its coordination capacity tailored to the needs of specific defense areas.

BIRDIE's viewing consoles and electronic equipment can be stored in vans which can be moved to a new location with little site preparation. BIRDIE consoles can also be removed into permanent Army Air Defense Command Posts. Modular design permits BIRDIE's coordination capacity to be sealed up or down for specific defense situations.

The engineering, procurement, and installation of all BIRDIE systems is under management of the Army Missile Command, Air Defense Fire Distribution System Office at Redstone Arsenal.

Six Complete Project Chief Course At Lee

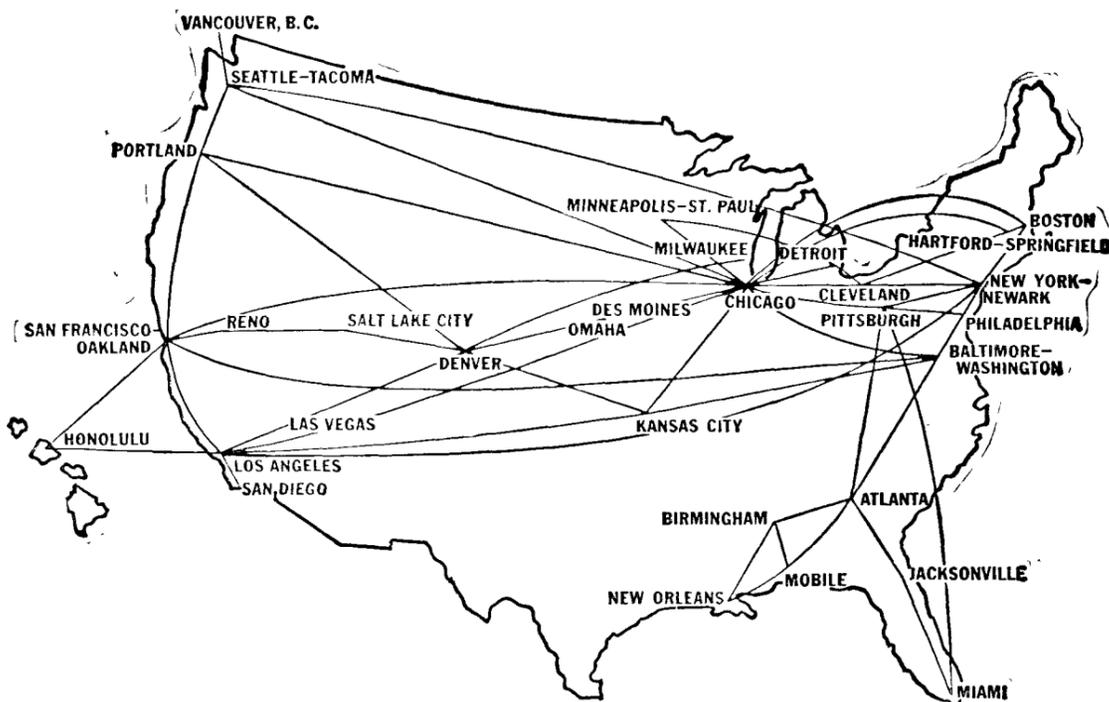
The Missile Command project managed systems were well represented in the graduation class for the latest group of Army personnel completing their studies in the Project Manager's course at the Army Logistics Management Center, Ft. Lee, Va.

Five civilian employees of the Command and an officer were among the members of the class that received diplomas signifying successful completion of the three-week course last Friday.

They were, Foster Bailey, John Calhoun and Hubert Nagle, all of the Sergeant Project Office; William Goodman and Edwin Larson, of Mauler; and Maj. Jonathan Holman, who is assigned to Pershing.

The Project Manager course is one of 14 postgraduate level courses offered at the Center, a field activity of the Army Materiel Command.

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COMPUTER AIDS WORLDWIDE LOGISTICS

A new computer which provides worldwide logistical support for troops in the field has been put into operation at the Army Missile Command.

Gen. John G. Zierdt, Commanding General, officially activated the computer within the Supply and Maintenance Directorate. He was assisted by Col. R. W. Grote, Director of the Supply and Maintenance Directorate; Gen. H. P. Persons, Jr., Deputy CG, Air Defense Systems; and Ralph A. Pfeiffer, Jr., vice-president, IBM Corporation.

Requisitions for missile parts from commands around the world now are received, key-punched on a tape fed into the computer. The requisitions then are 'punched out' to the depot storing the particular part, thus cutting down on the process involved in the logistical operation.

Officials pointed out that material readiness is the prime concern of all commodity commands within the Department of Defense, and the Missile Command has taken a giant step forward by placing the computing equipment in the hands of the directorate primarily responsible for the success or failure of its logistic support role.

Activation of the operation marked another first in the history of the Arsenal. The 'memory' unit of the computer is the only one of its kind here.



'FIRST' AT REDSTONE ARSENAL—Maj. Gen. John G. Zierdt, Commanding General, U.S. Army Missile Command, reads the print-out on a computer he had just activated, starting worldwide service for the logistical support of troops in the field. Here, from left to right, are Mrs. Edith Gibbs, Chief, Data Processing Office; Dr. Helmut Hoelzer, Director, NASA Computer Laboratory; Gen. Zierdt; Gen. H. P. Persons, Jr., Deputy Commanding General, Air Defense Systems; and Luther Krewson, Deputy Chief, Data Processing Office.

Four Study Logistics Course

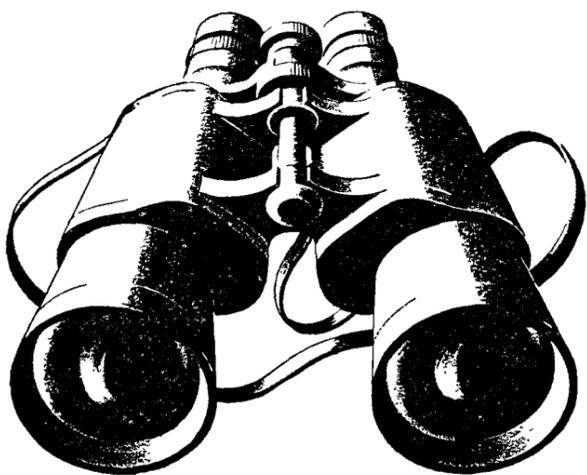
Back at their regular duty assignments this week after completing off-post training at the A. S. Army Logistics Management Center, Ft. Lee, Va., are four Missile Command civilian employees.

The local personnel were enrolled in the three week Defense Advanced Procurement Management course at the Army's only activity devoted to postgraduate level logistics management education. It is a field activity of the Army Materiel Command.

The Missile Command personnel are, W. C. Cleveland, W. P. Yarbrough and Hug Wilson, all of the Procurement and Production Directorate, and John Murphy,

who is employed in the Office of the General Counsel. They were enrolled at the Center as part of the Command's career development training program sponsored by Civilian Personnel's Training and Development Division.

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300	55.09	29.87	21.54	17.42

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Gen. Zierdt Gives Keynote Speech On Quality Control

Maj. Gen. John G. Zierdt, Commanding General of the U.S. Army Missile Command, made the keynote address last Thursday opening a two-day seminar sponsored by the American Society for Quality Control, Huntsville Section.

Quality Control specialists from the Army Missile Command, the Marshall Space Flight Center and industry in the Southeast attended the symposium.

Gen. Zierdt said that during the 1960's there had been marked changes in Department of Defense emphasis on Quality Control programs with special stress on the direct relationship between the quality of material produced and its cost to the Government.

He said that the Government is now requiring management to weigh every major decision against its potential impact on quality and its resultant impact on cost.

Gen. Zierdt said this was in marked contrast to the first introduction of statistical quality control in American industry forty years ago.

"Quality Control has been elevated from a generally misunderstood mathematical concept to an integral part of management's decision making process," he continued.

In sketching the history of Quality Control methods, Gen. Zierdt said:

"During the 30's, the war years, and continuing through the 40's the concept of Quality Control and its application spread throughout most of the military-industrial complex.

"During this period of growth, however, Quality Control was largely a science of the technician, the engineer, and the statistician. Management had accepted it, but more often than not, still did not really understand it."

Describing changes that have taken place with respect to Quality Control in the Army and specifically the Army Missile Command, he said:

"Just over two years ago the Army was reorganized. The responsibility for all Army procurement was placed in a single command — the Army Materiel Command, headed by Gen. Frank S. Besson. When Gen. Besson assumed command, one of his first acts was to call upon the National Security Industrial Association to assist in a study that would determine the most effective way to manage the Quality Control programs applied to Army procured materiel."

Gen. Zierdt said two proposals were made as a result of this study.

"The first was that throughout the Army we realign quality organizations toward a high degree of technical competence and gear them closely to the highest levels

of management . . . insuring that Quality Control decisions be carefully balanced with decisions of design, procurement, maintenance, and rebuild but that in no instance should the decisions of the quality manager be over-riden by the managers of these other programs.

"The second recommendation

made was that we concentrate our attention on quality of performance, or more simply stated, the total prerequisites for insuring that military supplies effectively meet user requirements. Combining of the traditional programs of quality, reliability and maintainability were recommended."

Gen. Zierdt said that General Besson accepted these recommendations and established a directorate on his staff to which he assigned the quality mission.

"At the Missile Command," he said, "I established the Quality and Reliability Management Of-

fice and gave to it staff responsibility for the management of all quality, reliability, and maintenance programs for missile materiel."

The Commanding General said that he made this organizational change because he believed in the importance of giving a proper emphasis to the requirements for quality and to lift administrative restrictions from the people who had this critical assignment.

"We are intensifying our efforts in our various missile sys-

tem oriented projects and we are systematically assessing our quality and reliability during all program phases. For the first time, we are in a position to express our quality and reliability attainments in terms of probability of user success," he said.

There will be an ever increasing demand for better quality and at the same time a seemingly opposing demand for reduced cost. "These two demands though seemingly paradoxical are obtainable," Gen. Zierdt concluded.

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Page 14 The Redstone Rocket — November 4, 1964

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Redstone Will Host Judo Contenders On Nov. 21

An outstanding demonstration of a Japanese sport that is rapidly becoming world wide will be staged at Redstone Arsenal Nov. 21 and will include one of the outstanding contestants now in this country.

Although still associated with Japan, judo has swept through many countries as a growing sport and proved its world-wide interest by being included in the recently completed Olympic games.

Col. David Marcelle, finance officer at Redstone Arsenal and instructor in judo, has announced that an examination for promotion will be held at the Post Gymnasium and will include more than 150 candidates for promotion, plus outstanding demonstrations from qualified judo experts. Invitations have been sent to judo groups in all southeastern states.

Headlining the program will be a demonstration by a leading champion from Japan. Lt. Kazuyoshi Fujihara, a leading contestant in judo and champion of the Japanese Military Academy, will present a demonstration and act as a referee and judge in the promotion activity, Col. Marcelle said.

Lt. Fujihara, an officer in the Japanese Air Self Defense Force and a student at the Ordnance Guided Missile School, was undefeated while at the academy and has won a number of contests in Japan. He holds the first degree black belt and is considered one of the best in the sport, Col. Marcelle pointed out.

The broad interest in the sport is shown by the individuals who will participate in the event. Included will be Japanese liaison officer, Lt. Col. Yoshisuke Hirai, and

Marines Visit Here

Foreign students attending the Marine Corps School in Quantico, Va., and representing countries ranging from Brazil to Viet Nam, visited the Army Ordnance Guided Missile School last week.

The 44 students arrived at the School following a visit to the Marine Supply Depot in Albany, Ga., and were taken on a tour of classrooms.

They are officers of the military in Brazil, China, Columbia, Ethiopia, Indonesia, Korea, Spain, Venezuela and Viet Nam.

a number of other Japanese officers and enlisted men, at least five German officers and a number of officer and enlisted men from the U.S. Army and Marine Corps. The Huntsville Judo Club will also participate.

Col. Marcelle said that among the Americans participating, the Marine group was outstanding and that a number of the U.S. Army officers were very promising.

Judges of the event will include Col. Marcelle who holds the third degree black belt, and outstanding experts from Washington and Atlanta.

This is the second examination to be held at the Arsenal, Col. Marcelle said. A similar activity was staged last October.

Candidates will compete for promotion in all three general classes: white belt (basic), brown belt (intermediate) and black belt (advanced and champion). Judging is based on standards established world wide and will consist of three aspects: written examination, contest, and practical demonstration.

At least two candidates for promotion in black belt class will be considered. Col. Marcelle pointed out, however, that most candidates are in the brown and white belt classes.

Dotson Will Lead Seminar

An administrative expert from the Army Missile Command will serve as a discussion leader at a Top Management Seminar to be held Nov. 4 at Rock Island, Ill.

Raymond S. Dotson, chief of the Program Coordination and Administrative Branch of the Future Missile System Division, will lead the topic "Human Relations in Management."

This is the 131st presentation of the Top Management Seminar, and is sponsored by the Army Management Engineering Training Agency at Rock Island. The seminars are always limited to about 20 people selected from Army, Navy, and Air Force Installations throughout the nation.

SCIENTISTS WILL PRESENT PAPERS

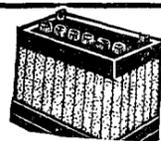
The Army Missile Command's Directorate of Research and Development will play an important part in a three-day meeting of the

Southeastern Section of the American Physical Society, the meeting begins November 5 in Chattanooga, Tenn.

The eight speakers from the Physical Sciences Laboratory will tell about some of their research work in the various fields of physics at Redstone Arsenal.

Dr. Thomas A. Barr, Charles M. Cason and Walter L. Hales will present papers on their work in atomic molecular physics.

Romas A. Shatas, George A. Tanton and David W. Howgate will present papers concerning solid state physics, and Dr. Dale R. Koehler and Thomas G. Miller will talk about their specialty, nuclear physics. All eight speakers are research physicists.



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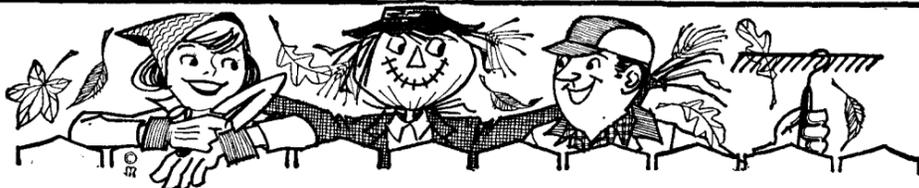
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Supervisors Study Middle Management

Fifty-five supervisors from the U.S. Army Missile Command and the Marshall Space Flight Center attended a Management Institute here the past week.

The conference was designed for personnel above the first level of supervision who are being groomed for or are in a middle management position. Management practices and theory concerning delegation and control, leadership, motivations, effective communications organization and work planning were covered.

Six Atlanta, Ga., educators conducted the five-day course. Five of them are on the staff of Georgia State College: Dr. Elbert T. Eggers, Professor of Management, Dr. W. Rogers Hammond, Dean, Graduate Studies, School of Business Administration; Dr. G. Hugh Russell, Industrial Psychologist; Dr. David J. Schwartz, Professor of Marketing; and Dr. Michael H. Mescon, Head, Department of Management. Dr. Robert W. Carney, Associate Professor of Industrial Management, Georgia Institute of Technology, also helped conduct the course.

On the staff of the institute, which was sponsored by the U.S.

AUSA Scholarship Award Goes To Staff Sgt. Kang

A Korean Army sergeant Friday became the first representative of his nation to win the highest academic award given at the U.S. Army Ordnance Guided Missile School.

Staff Sgt. Kwi Kun Kang of Chonnam scored 96.4 in a course on the Nike-Hercules radar and computer system to win the outstanding student award of the Association of the U.S. Army.

The Koreans outnumbered U.S. students 43 to 15 at a graduation ceremony at which five Koreans and one American were named honor students.

They were Maj. Hongko Lee, Pfc. Jik Soon Jung, S/Sgt. Chung Haeng Cho, S/Sgt. Chun Suh Pak, S/Sgt. Young Kook Kim, and Pvt. Robert B. Davis of Pasadena, Texas.

The graduates heard Col. Frank J. Wasson Jr. of the Combat Development Command emphasize that new missiles now being developed will call for more intensive technical training on the part of maintenance experts.

ON ACTIVE DUTY

Fort McPherson, Ga.—Capt. Robert N. Milam, USAR, is at Third Army Headquarters for two weeks active duty training as Supply Operations Officer in the office of the Deputy Chief of Staff, Logistics.

A graduate of West Tennessee Business College at Jackson, Capt. Milam is employed in civilian life as Supply Commodity Management Officer at Redstone Arsenal. He resides in Huntsville at 2212 Lynn Rd., with his wife and two sons, Bobby, 13, and Lee, 8.

His mother, Mrs. Mary Compton, resides in Jackson, Tenn.

Welcome Mat

The ROCKET extends a welcome to the following officer personnel who have recently started tour assignments with Army organizations at Redstone Arsenal.

Maj. Erich M. Mauerhoff, who becomes Post Adjutant; 1st Lt. Thomas J. Vickers, 1st Lt. Thomas H. Fisher and 2nd Lt. Ernest A. Hahn, all assigned to Research & Development Directorate; Capt. Robert T. Hall and Capt. Ralph T. Lawson, both with Post Hospital; and Capt. Leslie J. Valouche, Capt. Ben W. Stutts and CWO David L. Ohlsen, Aviation Branch.

Civil Service Commission, Atlanta Region, were Robert J. Seay, Huntsville, Phillip B. Belt, Raleigh, N.C., and Donald R. Williams and Joseph R. Martin, both of Atlanta. The Training and Development Division of the Civilian Personnel Office, U.S. Army Missile Support Command, served as host.

Kiwanis Has Commandant On The Board

Col. William J. Macpherson, commandant, and Reavis O'Neal Jr., information officer, of the Army Ordnance Guided Missile School were re-elected to the board of directors of the Metropolitan Kiwanis Club of Huntsville last week.

George A. Martin was named president, with D. C. Boone and State Senator Roscoe Roberts Jr. as vice president, and James C. Galloway as treasurer. George E. Mann is secretary.

Also named to the board were George P. Cooper, C. W. Foster, Philip M. Mason, Joseph C. Moquin and M. Alex Thomas.

The Metropolitan Club in conjunction with the Huntsville Kiwanis Club provides financial support for the school traffic safety programs of city and county schools, the local Boys Clubs, a free summer camp project for underprivileged youths and several 4-H and Future Farmers programs.

Day Of Prayer Planned

Key Army officials at Redstone Arsenal are expected to attend the first annual Mayor's Prayer Breakfast at the Officers Open Mess Monday morning, according to Mayor Glenn H. Hearn.

The breakfast is being hosted by Chaplain Donald F. Carter.

Later in the day, U.S. and foreign students at the Army Ordnance Guided Missile School, representatives of all area colleges and all military and civilian personnel on the Arsenal are invited to attend a Prayer Seminar to be conducted by Chaplain Carter in the Service Club at 4 p.m.

The Mayor and the Huntsville-Madison County Chamber of Commerce are sponsoring the events with the assistance of International Christian Leadership, an organization which arranged weekly prayer breakfasts for members of the U.S. Congress and in 1961 first sponsored an annual event now held at the White House and in 47 other states.

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